

Nuclear Power Generation Engineering Construction & Pre-Op Start-Up

Executive Summary

Southern Polytechnic State University (SPSU), in Marietta, Georgia, is currently working under a grant from the U.S. Nuclear Regulatory Commission to develop a curriculum for four nuclear power generation courses that will make available nuclear industry careers to students and professionals. This proposed *Construction & Pre-Op Start-Up* course is to complete the nuclear engineering technology curriculum at SPSU. The general purpose of this course is to assemble the requirements and experience of nuclear plant construction and pre-operational start-up testing into a viable working educational program. This endeavor is intended to expand the nuclear, technical, and engineering workforce by:

- training students and other participants in the codes, standards, criteria and good practices that guide the construction and pre-operational start-up testing of the new generation plants, to achieve nuclear safety, personnel safety, and environmental protection;
- providing construction and other engineering and technology students with the opportunity to consider nuclear plant construction careers, a unique opportunity currently non-existent in most U.S. colleges and universities;
- making the course available to qualified university, college students, and other participants in Georgia or other states, through SPSU's Extended University and Office of Distance Learning.

SPSU also has the support of ASME's Board of Nuclear Codes and Standards for this project and is currently working with neighboring utilities to better define course content. The research will be conducted by student assistants under the guidance of subject matter experts from the Project Team. The strategic plan calls for the future establishment of a nuclear industry advisory committee that will guide, oversee, and accredit the program.